PTC/SB084(10-01)
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Under the Paperwork Raduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OAIB control number, Substitute for form 1449A/PTO Complete if Known INFORMATION DISCLOSURE 10/774,956 **Application Number** STATEMENT BY APPLICANT Filing Date February 9, 2004 Gardner, Donald **First Named Inventor** 2813 **Group Art Unit** Berezny, Nema **Examiner Name** Attorney Docket No: 884.140US3 Sheet 1 of 4

		US PA	ATENT DOCUMENTS	· ·
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
70/1	US-3,607,462	09/21/1971	Laing, Alfred M.	03/21/1968
/	US-3,905,883	09/16/1975	Hanazono, Masanobu, et al.	06/18/1974
	US-4,543,553	09/24/1985	Mandai, H., et al.	05/16/1984
	US-4,791,719	12/20/1988	Kobayashi, Tetsuo , et al.	01/08/1987
	US-4,797,648	01/10/1989	Kaneko, Toshimi, et al.	03/09/1988
	US-4,816,784	03/28/1989	Rabjohn, Gordon G.	01/19/1988
	US-5,047,296	09/10/1991	Miltenberger, Bernard, et al.	09/08/1988
	US-5,121,852	06/16/1992	Wilkes, Robert D.	08/08/1991
	US-5,221,459	06/22/1993	Okano, Yoko, et al.	04/24/1992
	US-5,420,558	05/30/1995	Ito, Naoki , et al.	05/26/1993
	US-5,469,399	11/21/1995	Sato, Toshiro, et al.	03/15/1994
	US-5,530,415	06/25/1996	Takaya, Minoru	03/07/1994
	US-5,583,474	12/10/1996	Mizoguchi, Tetsuhiko , et al.	05/25/1994
	US-5,609,946	03/11/1997	Korman, Charles S., et al.	10/03/1995
	US-5,694,030	12/02/1997	Sato, Toshiro, et al.	09/16/1996
	US-5,705,287	01/06/1998	Doerner, Mary F., et al.	09/20/1994
	US-5,793,272	08/11/1998	Burghartz, J. N., et al.	08/23/1996
	US-5,834,825	11/10/1998	Imai, Kiyotaka	12/23/1996
	US-5,892,425	04/06/1999	Kuhn, W. B., et al.	04/10/1997
	US-5,961,746	10/05/1999	Nepela, Daniel A.	08/15/1997
	US-5,976,715	11/02/1999	Chen, Li-Han, et al.	11/06/1997
	US-6,031,445	02/29/2000	Marty, Michel, et al.	11/25/1998
	US-6,033,782	03/07/2000	Hubbard, Ronald N., et al.	05/21/1997
	US-6,067,002	05/23/2000	Fujino, Masato , et al.	09/11/1996
<del></del>	US-6,103,136	08/15/2000	Han, Cherng-Chyi	03/23/1998
	US-6,121,852	09/19/2000	Mizoguchi, Tetsuhiko , et al.	07/14/1998
	US-6,166,422	12/26/2000	Qian, Linggian, et al.	05/13/1998
	US-6,191,495	02/20/2001	Kossives, Dean P., et al.	04/16/1999
	US-6,207,303	03/27/2001	Tomita, Hiroshi	06/02/1998
<del></del>	US-6,404,317	06/11/2002	Misoguchi, Tetsuhiko , et al.	08/23/1996
	US-6,441,715	08/27/2002	Johnson, F. S.	02/16/2000
TN	US-6,452,243	09/17/2002	Hatano, Keisuke , et al.	12/20/1999

		FOREIGN PATEN	IT DOCUMENTS	
Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T <sup>2</sup>
TN	DE-4117878A1 (w/ English Abstract)	12/12/1991	Hasegawa, M , et al.	
TN,	EP-0295028A1	12/14/1988	Pettigrew, Robert M., et al.	
77	EP-0884783A2	12/16/1998	Kossives, Dean P., et al.	

EXAMINER	T. NGUYEN	DATE CONSIDERED 12/2/05

PTO/S8/08A(10-01)
Approved for use through 10/31/2002, OMB 651-0031
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Substitute for form 1449A/PTO	Complete If Known	required to respond to a collection of information unless it contains a valid OMB control number
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	10/774,956
(Use as many sheets as necessary)	Filing Date	February 9, 2004
	First Named Inventor	Gardner, Donald
	Group Art Unit	2813
	Examiner Name	Berezny, Nema
Sheet 2 of 4	Attorney Docket No: 8	884.140US3

		FOREIGN PATEN	IT DOCUMENTS	
Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T²
TN	JP-06124843 (w/ English Abstract)	05/06/1994	Mino, Masato, et al.	
TN	JP-61020311 (w/ English Abstract)	01/29/1986	Tago, Akio , et al.	
70	WO-0139220A1	05/31/2001	Gardner, Donald	

Frantsa		R DOCUMENTS NON PATENT LITERATURE DOCUMENTS Include name of the author (In CAPITAL LETTERS), title of the article (when appropriate), title of the Item	<u>,</u>
Examiner initials*	Cite No <sup>1</sup>	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Ţ,
/		"Magnetic Devices Research",(various articles) <a href="http://mems.mirc.gatech.edu/">http://mems.mirc.gatech.edu/</a>	
///		research/magnetic.html, 10 pgs.	
		BABA, M., et al., "GHz-drive Magnetic Thin-Film Inductor Using CoNbZr film", Journal of the Magnetics Society of Japan, 24(4-2), (2000), 879-882	
		BRANDON, E., et al., "Microinductors for spacecraft power electronics",	T
		Magnetic Materials, Processes and Device VI Applications to Storage and	
- 1		Microelectromechanical systems (MEMS), Vol. 2000-29, The Electrochemical	
- 1		Society, Inc., Pennington, New Jersey, (2001), 559-567	
		BRANDON, E., et al., "Passive Components for Systems-on-a-Chip	Т
		Applications", International Conference on Integrated Micro Nanotechnology for	
\		Space Applications, Center for Integrated Space Microsystems, Jet Propulsion	
		Laboratory, (April 11-15, 1999), 3 pgs.	
		BRANDON, E., "System on a Chip Integrated Passive Components (µIRS)",	П
		2 pgs.	
		BURGHARTZ, J., "Integrated Multilayer RF Passives in Silicon Technology",	
1 1		1998 Topical Meeting on Silicon Monolithic Integrated Circuits in RF Systems,	
		Digest of Papers, (Sept. 17-18, 1998), 141-147	
		BURGHARTZ, J. N., "Progress in RF Inductors on Silicon-Understanding	
1 1		substrate Losses", <u>Techn. Dig. IEDM</u> , (1998), 523-526	1_
		FESSANT, A., et al., "Influence of In-Plane Anisotropy and Eddy Currents on	
1 1		the Frequency Spectra of the Complex Permeability of Amorphous CoZr Thin	
\		Films", IEEE Transactions on Magnetics, 29(1), (January 1993), 82-87	
		GARDNER, D., et al., "High Frequency (GHz) and Low Resistance Integrated	l
\		Inductors Using Magnetic Materials", Proc. IEEE Int. Interconnect Technol.	
		Conf., (June 2001), 101-103	1_
	<del>.</del>	GARDNER, D., et al., "Mechanical Stress as a Function of Temperature for	
1		Aluminum Alloy Films", <u>Journal of Applied Physics</u> , 67(4), (February 15,	
		1990),1831-1845	$\perp$
		KOBAYASHI, Y., et al., "New Type Micro Cloth-inductor and Transformer With	
_ / . /		Thin Amorphous Wires and Multi-Thin Coils", IEEE Transactions on Magnetics,	1
7 <b>7</b> ~ ¥		28(5), (September 1992), 3012-3014	

EXAMINER	T. NEWIEN	DATE CONSIDERED 12/2/05

PTO/58/084(10-01)
Approved for use through 10/31/2002, OMB 651-0001
IS Patient & Trademerk Office: U.S. DEPARTMENT OF CONDUCTICE

	Examiner Name	Berezny, Nema		
	Group Art Unit	2813		
(Use as many sheets as necessary)	First Named Inventor	Gardner, Donald		
	Filing Date	February 9, 2004		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	<b>Application Number</b>	10/774,956		
Substitute for form 1449A/PTO	Complete if Known	Complete Il Known		

	OTHER	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No <sup>1</sup>	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
72/		KORENIVSKI, V., et al., "Magnetic Film Inductors for Radio Frequency Applications", <u>Journal of Applied Physics</u> , 82(10), (November 15, 1997), 5247-5254	
		LONG, J., et al., "The Modeling, Characterization, and Design of Monolithic Inductors for Silicon RF IC's", IEEE Journal of Solid-State Circuits, 32(2), (March 1997), 357-369	
		MATSUKI, H., et al., "A New Cloth Inductor Using Amorphous Fiber", <u>IEEE</u> Transactions on Magnetics, 21(5), (September 1985), 1738-1740	
		MOHAN, S., et al., "Bandwidth Extension in CMOS With Optimized On-Chip Inductors", IEEE Journal of Solid-State Circuits, 35(3), (March 2000), 346-355	
		MOHAN, S., et al., "Modeling and Characterization of On-Chip Transformers", 1998 International Electron Devices Meeting Technical Digest, Center for Integrated Systems, Stanford University, Stanford, CA,(Dec. 1998), 531-534	
		MOHAN, S., et al., "Simple Accurate Expressions for Planar Spiral Inductances", IEEE Journal of Solid-State Circuits, 34(10), (October 1999), 1419-1424	
		MOJARRADI, M., et al., "Power Management and Distribution for System on a Chip for Space Applications", AIAA Conference, Paper No. 284, (1999), 8 pgs.	
		NIKNEJAD, A., et al., "Analysis, Design, and Optimization of Spiral Inductors and Transformers Si RF IC's", IEEE Journal of Solid-State Circuits, 33(10), (October 1998),1470-1481	
		O'DONNELL, T., et al., "Microtransformers and Inductors using Permalloy Thin Films", <u>Preparation</u> , <u>Properties</u> , and <u>Applications of Thin Ferromagnetic Films</u> , <a href="http://www.iemw.tuwien.ac.at/publication/workshop0600/ODonnell.html">http://www.iemw.tuwien.ac.at/publication/workshop0600/ODonnell.html</a> , (June 2000), 45-52	
		PARK, J., et al., "Batch-fabricated microinductors with electroplated magnetically anisotropic and laminated alloy cores", <u>IEEE Transactions on Magnetics</u> , 35(5), (September 1999), 4291-4300	
		SATO, T., et al., "New Applications of Nanocrystalline Fe(Co-Fe)-Hf-O Magnetic Films to Micromagnetic Devices", <u>Journal of Applied Physics</u> , 83(11), (June 1, 1998), 6658-6660	
		TOMITA, H., et al., "Oblique-Field Annealing Effect for In-Plane Magnetic Anisotropy of Soft Magnetic Co-Nb-Zr Thin Films", IEEE Transactions on Magnetics, 30(3), (May 1994), 1336-1339	
		YABUKAMI, S., et al., "Noise Analysis of a MHz-3 GHz Magnetic Thin Film Permeance Meter", <u>Journal of Applied Physics</u> , 85(8), (April 15, 1999), 5148-5150	
7		YAMAGUCHI, M., et al., "1 GHz-Drive Magnetic Thin-Film Inductors for RF Integrated Circuits Using Micro-Patterned Granular Film", <u>Digest of INTERMAG 99. 1999 IEEE International Magnetics Conference</u> , 1999, (May 18-21, 1999), ED01, 1 pg.	

EXAMINER T. NEWEN DATE CONSIDERED 12/2/05

PTO/SB/08A(10-01)
Approved for use through 10/31/2002, OMB 851-0031
US Paiest 6 Trickment Office U.S. DEPARTMENT OF COMMERCE

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	OTHE	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T³
72/		YAMAGUCHI, M., et al., "Magnetic Films for Planar Inductive Components and Devices", Handbook of Thin Film Devices, edited by M.H. Francombe, Vol. 4, Magnetic Thin Film Devices, (2000),185-212	
		YAMAGUCHI, M., et al., "Magnetic Thin-Film Inductor for RF Integrated Circuits", Extended Abstracts of the 1999 International Conference on Solid-State Devices and Materials, Tokyo, (1999), 580-581	
		YAMAGUCHI, M., et al., "Microfabrication and Characteristics of Magnetic Thin- Film Inductors in the Ultra High Frequency Region", <u>Journal of Applied Physics</u> , 85(11), (June 1, 1999), 7919-1922	
72/V		YUE, C., et al., "On-Chip Spiral Inductors With Patterned Ground Shields for Si-Based RF ICs", IEEE Jorunal of Solid-State Circuits, 33(5), (May 1998), 743-752	

EXAMINER T-Mayer DATE CONSIDERED 12/2/05